

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

Tischler und Sohn (USA) Ltd. Six Suburban Avenue Stamford, CT 06901

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Weight & Chain System" Single & Double Hung Wood Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1828, Series titled "Single & Double Weight & Chain System Hung Impact Window", sheets 01 through 09 of 09, dated 07/02/12 with the latest revision dated 06/04/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Wedel (Schleswig-Holstein), Germany, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0304.08 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



J. 645001

NOA No. 14-0428.17 Expiration Date: June 13, 2018 Approval Date: July 03, 2014

Page 1

Tischler und Sohn (USA) Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
 - (Submitted under previous NOA No. 13-0304.08)
- 2. Drawing No. 1828, Series titled "Single & Double Weight & Chain System Hung Impact Window", sheets 01 through 09 of 09, dated 07/02/12 with the latest revision dated 06/0/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

(Submitted under previous NOA No. 13-0304.08)

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201–94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of a wood hung window, prepared by Architectural Testing, Inc., Test Report No. ATI-C261.01-109-18, dated 11/20/12, signed and sealed by Michael D. Stremmel, P. E.

(Submitted under previous NOA No. 13-0304.08)

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC, dated 09/25/12, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

(Submitted under previous NOA No. 13-0304.08)

2. Glazing complies with ASTM E1300-04/09

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 12–1231.08 issued to Eastman Chemical Company (MA) for their "Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 03/28/13, expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance to and complying with FBC 5th Edition (2014), dated 04/15/14, issued by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

Jaime D. Gascon, P. E. Product Control Section Supervisor

NOA No. 14-0428.17

Expiration Date: June 13, 2018 Approval Date: July 03, 2014

Tischler und Sohn (USA) Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

- 2. Statement letter of conformance with ANSI/ AAMA/ NWWDA 101/ I.S.2–97 and complying with FBC-2010, dated 10/09/12, issued by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E. (Submitted under previous NOA No. 13-0304.08)
- 3. Statement letter of no financial interest and independence, dated 10/09/12, issued by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

(Submitted under previous NOA No. 13-0304.08)

4. Laboratory compliance letter for Test Report No. ATI-C261.01-109-18, issued by Architectural Testing, Inc., dated 11/20/12, signed and sealed by Michael Stremmel, P. E.

(Submitted under previous NOA No. 13-0304.08)

5. Distributor Agreement between Tischler und Sohn (USA), Ltd., Connecticut, USA, and Tischler/ Cornelius Korn, G.m.b.H., Wedel (Holstein) S. H., Germany, dated 04/13/09, signed by Tim Carpenter and Wilhelm Korn, respectively.

(Submitted under previous NOA No. 13-0304.08)

G. OTHERS

1. Notice of Acceptance No. 13-0304.08, issued to Tischler und Sohn (USA), Ltd. for their Series "Weight & Chain System" Single & Double Hung Wood Window - L.M.I.", approved on 06/13/13 and expiring on 06/13/18.

Jaime D. Gascon, P. E. Product Control Section Supervisor NOA No. 14–0428.17

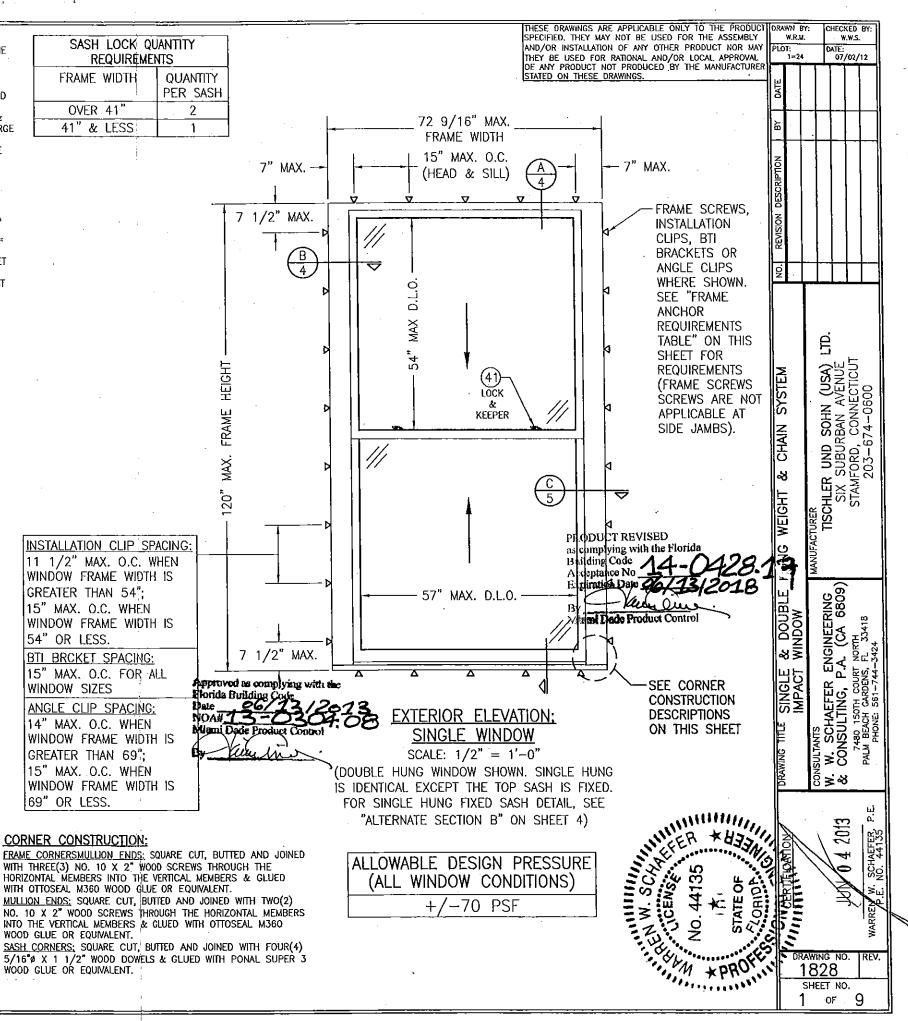
> Expiration Date: June 13, 2018 Approval Date: July 03, 2014

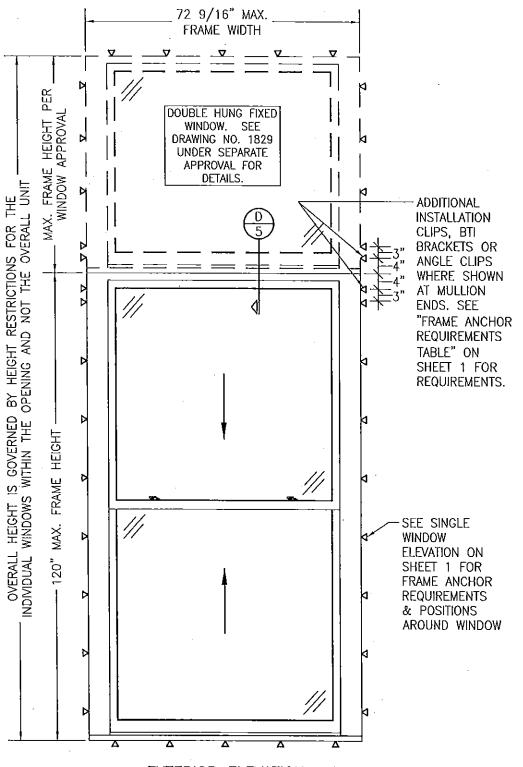
GENERAL NOTES:

- 1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- 2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE
- 3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- 4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
- 5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- 6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS
- 7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
- 8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
- 9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
- 10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
- 11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

FRAME ANCHOR REQUIREMENTS TABLE				
OPENING TYPE	FRAME/CLIP/BRACKET TO	MINIMUM		
(SUBSTRATE)	OPENING FASTENER TYPE	EMBED	EDGE DIST.	
FRAME SCREWS				
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"	
MIN. 16 GA. 33 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK 6063T5 ALUM.	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"	
(3) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"	
INSTALLATION CLIP SCREWS				
(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 3/8"	3/4"	
MIN. 16 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL.	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
(3) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"	
BTI BRACKET SCREWS				
(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 3/8"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
ANGLE CLIP SCREWS				
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 5/16"	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW				

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) 2X_ BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS
- (3) CMU IS NOT APPLICABLE AT HEAD OR SILL.





EXTERIOR ELEVATION: SINGLE WINDOW WITH TRANSOM

SCALE: 1/2" = 1'-0"

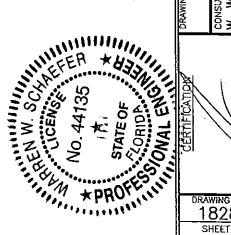
(DOUBLE HUNG WINDOW SHOWN, SINGLE HUNG WINDOW ALSO APPLIES) (FOR DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION ON SHEET 1)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0428. 17
Expiration Date 06/13/2018

Miami Dade Product Control

Approved as complying with the Florida Building Code 2013 Portal NOA# 13-03-05-08

Miami Dade Product Control



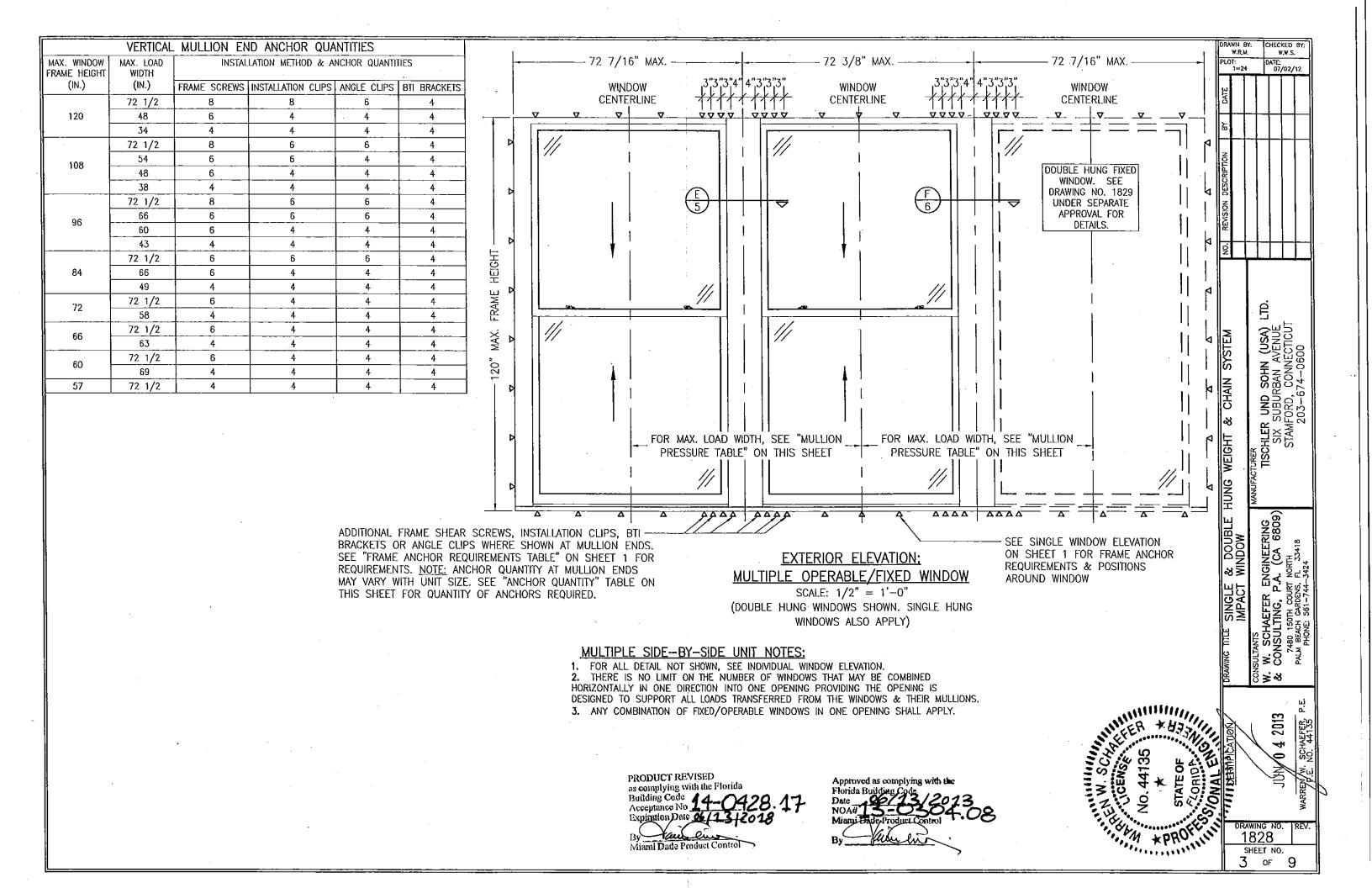
DRAWING NO. | REV. 1828 | SHEET NO. 2 OF 9

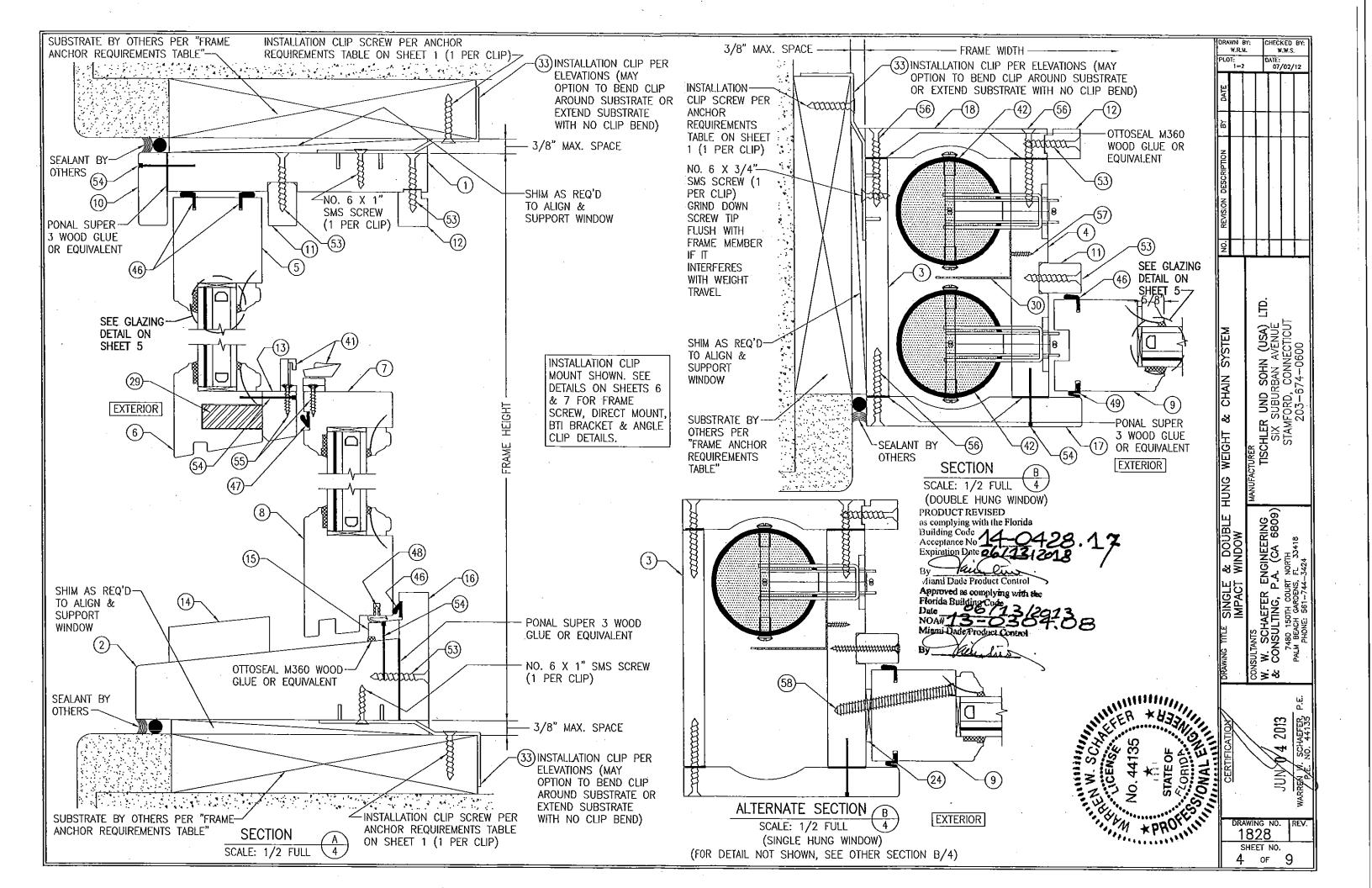
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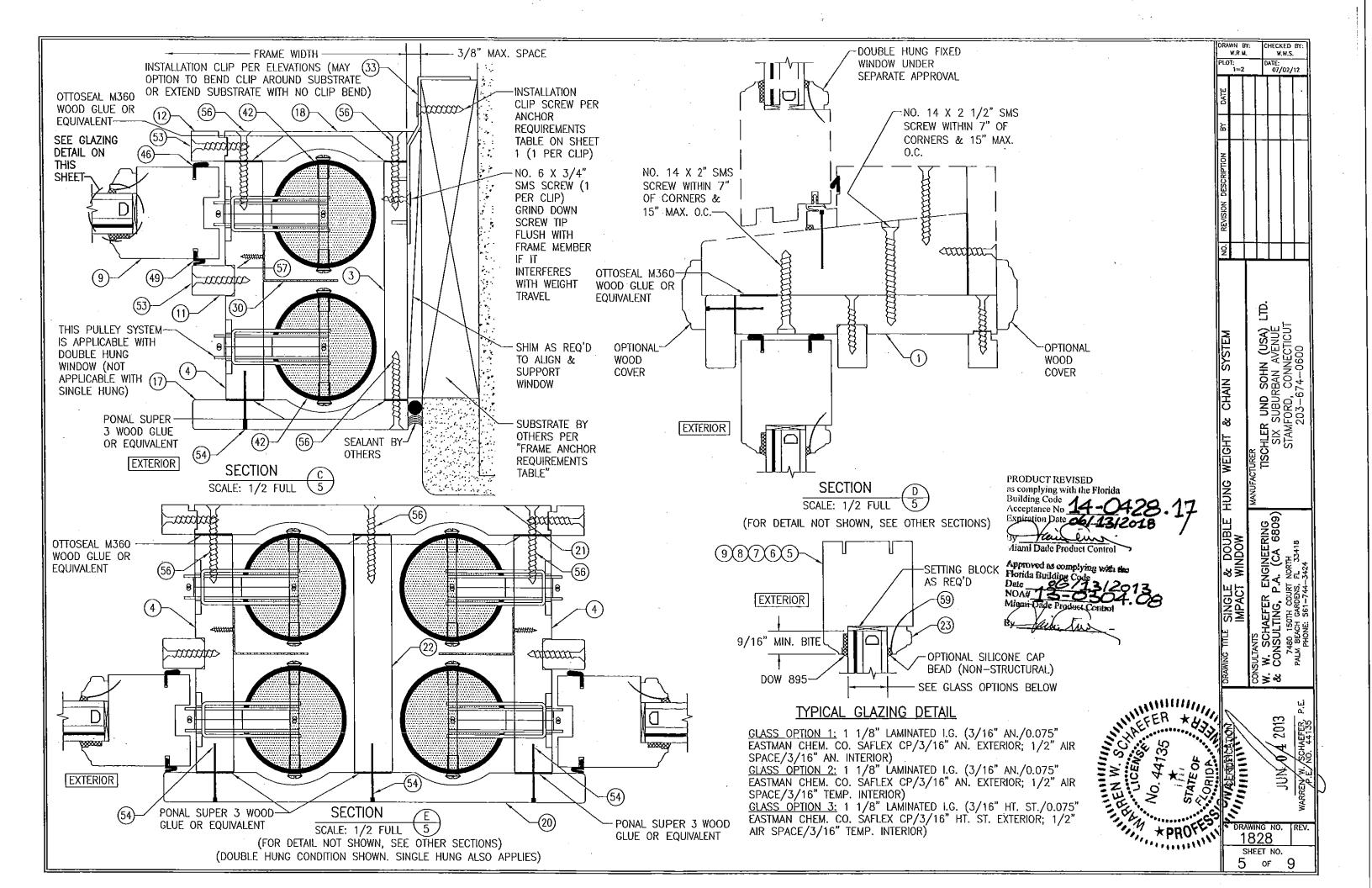
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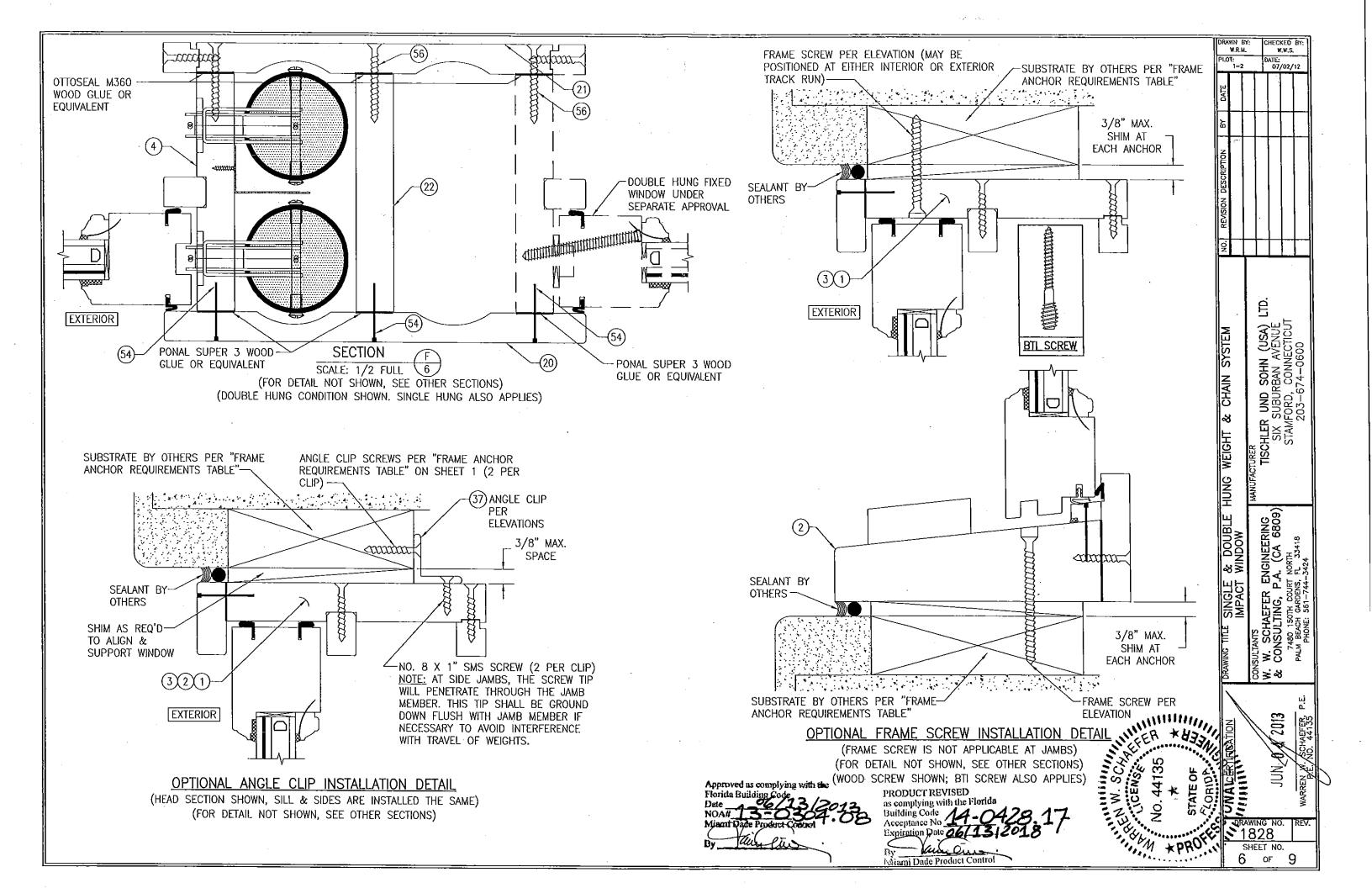
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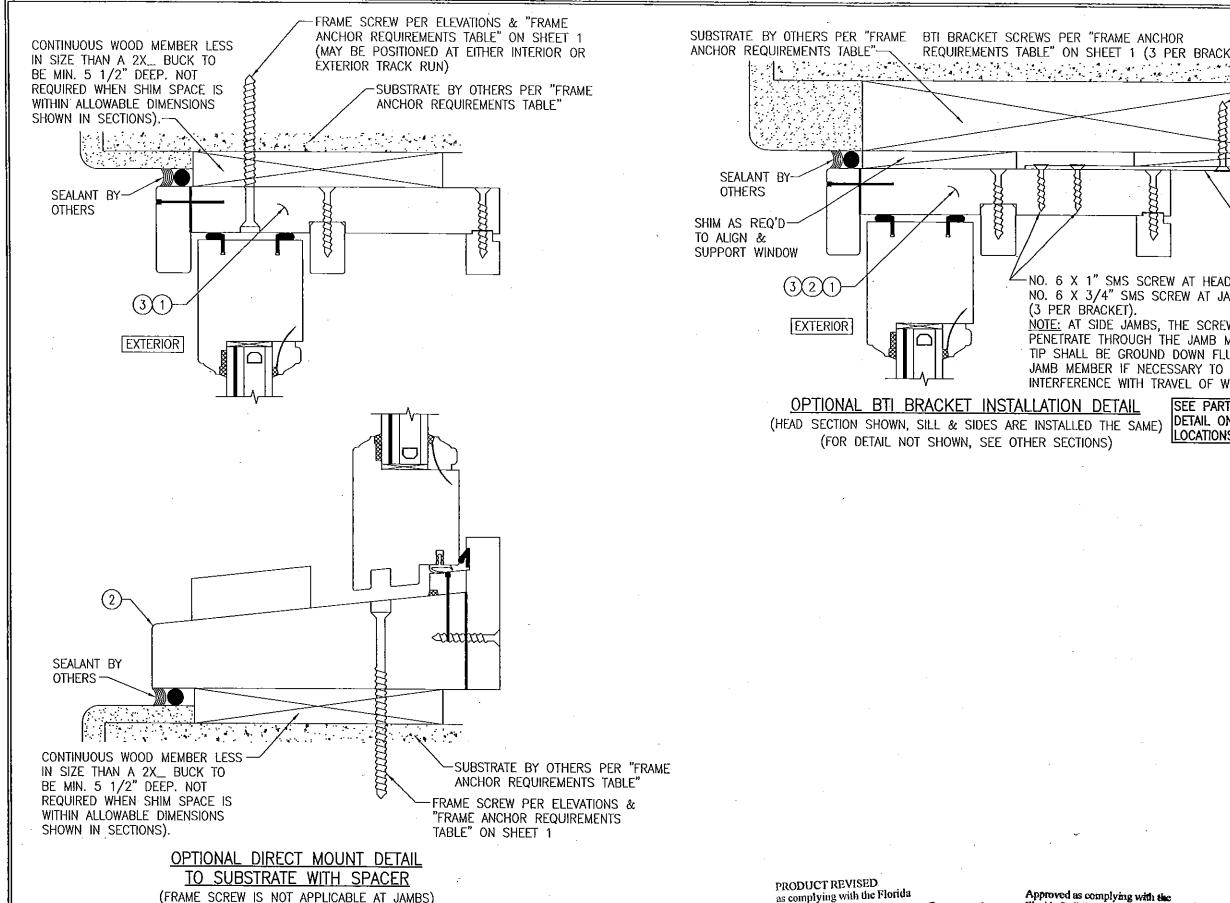
ER ENGINEERING G, P.A. (CA 6809)



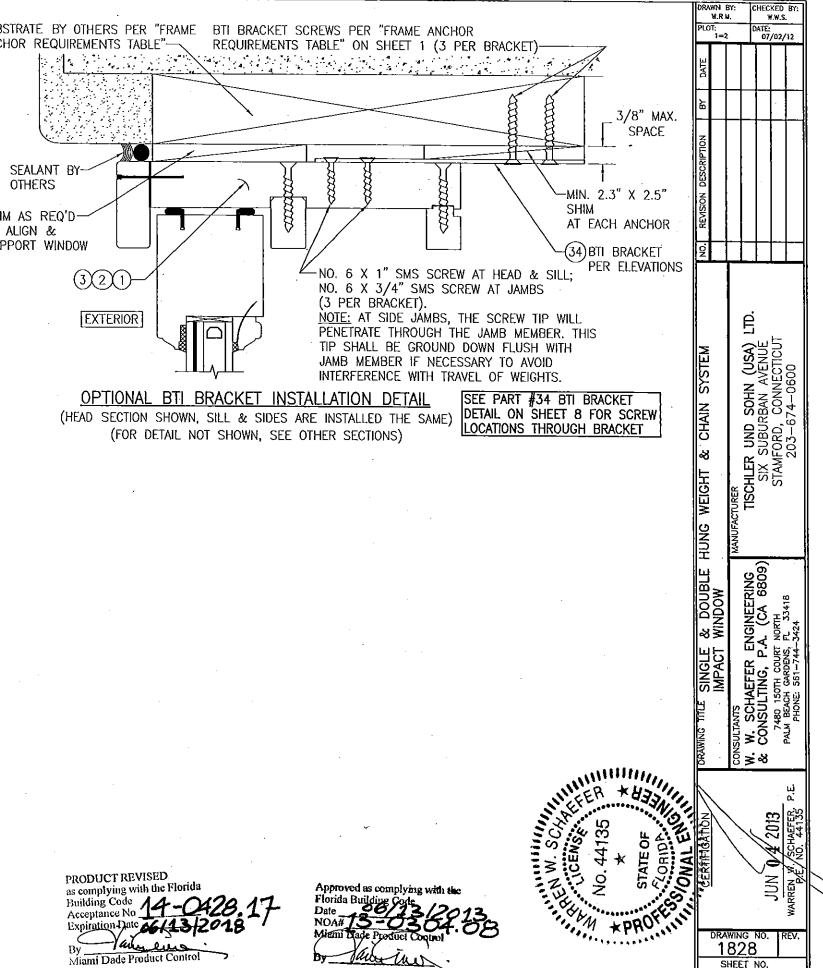




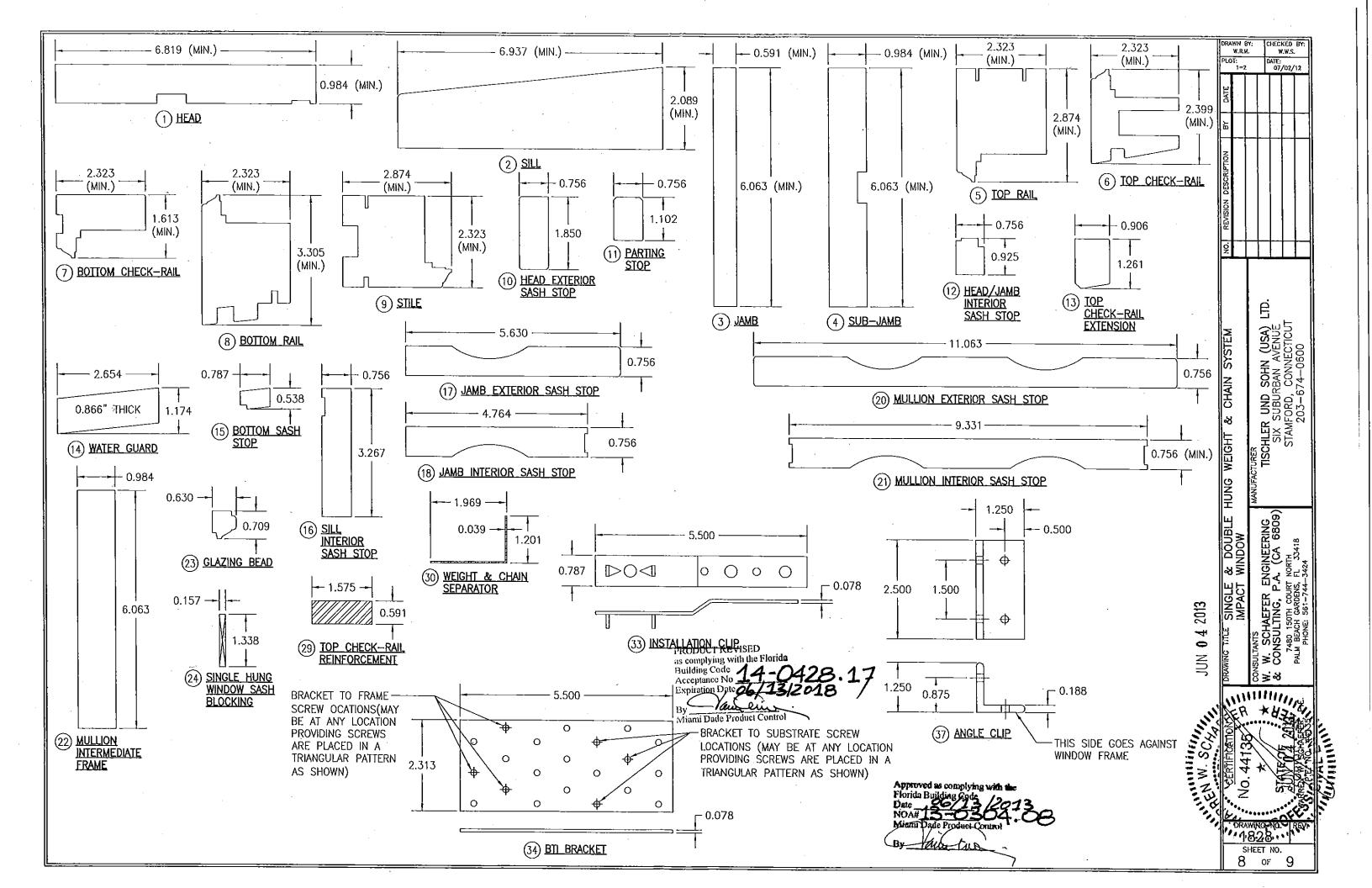




(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



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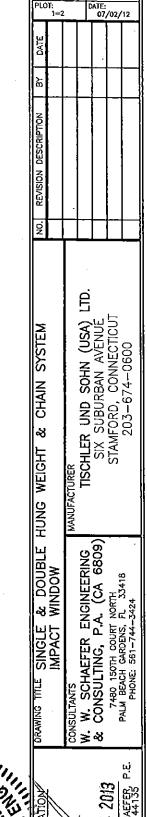


ITEM #	ITEM DESCRIPTION	WANIFACTURED (MOTTE)			
EM #		MANUFACTURER/NOTES			
1	PARTS				
1	HEAD SILL	WOOD			
2	JAMB	WOOD			
3	SUB-JAMB	WOOD			
4	TOP RAIL	WOOD			
5	TOP CHECK-RAIL	WOOD			
6 7	BOTTOM CHECK-RAIL	WOOD			
1	BOTTOM RAIL	WOOD			
8	STILE	WOOD			
9	<u> </u>	WOOD			
10	HEAD/JAMB EXTERIOR SASH STOP PARTING STOP	WOOD			
11		WOOD			
12	HEAD/JAMB INTERIOR SASH STOP	WOOD			
13	TOP CHECK-RAIL EXTENSION	WOOD			
14	WATER GUARD	WOOD			
15	BOTTOM SASH STOP	WOOD			
16	SILL INTERIOR SASH STOP	WOOD			
17	JAMB EXTERIOR SASH STOP	WOOD			
18	JAMB INTERIOR SASH STOP	WOOD			
20	MULLION EXTERIOR SASH STOP	WOOD			
21	MULLION INTERIOR SASH STOP	WOOD			
22	MULLION INTERMEDIATE FRAME	WOOD			
23	GLAZING BEAD	WOOD			
24	SINGLE HUNG WINDOW SASH BLOCKING	WOOD			
29	TOP CHECK-RAIL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL			
30	WEIGHT & CHAIN SEPERATOR	6063—T6 ALUMINUM			
33	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL			
34	BTI BRACKET	GALVANIZED 54 KSI STEEL			
37	ANGLE CLIP	6061—T6 ALUMINUM			
	HARDWARE HARDWARE				
41	SASH LOCK & KEEPER	PHELPS LKF-14			
42	WEIGHT & CHAIN SYSTEM:	_			
	SASH STOP	VON MORRIS 2400X605 NL BRASS			
1	PULLEY	PHELPS SP225BB RE BRASS			
 	COUNTER WEIGHT DOEBLER STEEL TUBE WITH GOSLER SOLID LEAD				
SEALS & SEALANTS					
46	WEATHERSTRIP	SCHLEGEL QWS-250			
47	WEATHERSTRIP	SCHLEGEL QFS-375			
48	SILL WEATHERSTRIP	DEVENTER S6961			
49	WEATHERSTRIP	SCHLEGEL QL3055			
<u> </u>	FASTENERS				
53	NO. 8 X 1 1/2" SMS OR WOOD SCREW	WITHIN 2" FROM CORNERS & 12" MAX. O.C.			
.54	18 GA. X 1 1/2" S.S. BRAD NAIL	WITHIN 2" FROM CORNERS & 12" MAX. O.C.			
55	NO. 8 X 3/4" SMS OR WOOD SCREW	2 PER EACH SASH LOCK AND KEEPER			
56	NO. 10 X 2" SMS OR WOOD SCREW	WITHIN 2" FROM ENDS & ONE AT MID-SPAN			
. 57	NO. 6 X 13/16" SMS OR WOOD SCREW	WITHIN 3" FROM CORNERS & 8" MAX. O.C.			
58	NO. 14 X 3 1/8" BAUTEC WOOD SCREW	WITHIN 4" FROM CORNERS & 12" MAX. O.C.			
59	L. THOM CONTENTS BY 12 WINT. C.C.				
NOIE:	NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,6000,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE				

ELASTICITY OF E = 1,6000,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No Expiration Date 06/13

Approved as complying with the Florida Building Code
Date
NOA# 3-0304
Mizmit Dade Product Control



1828 SHEET NO. 9 of 9